

CLAIMS

- Claim 20. The process of claim 36 wherein said liquid is selected from the group consisting of nonionic surfactants, anionic surfactants, water, polyethylene glycol, and mixtures thereof.
- Claim 21. The process of claim 36 wherein said liquid is a nonionic surfactant.
- Claim 22. The process of claim 36 wherein said liquid is polyethylene glycol having a molecular weight less than about 1000.
- Claim 23. The process of claim 36 wherein said water dispersible, non-particulate detergent product has at least about 5% greater dispersability in water as compared to a non-particulate detergent product having a density of at least about 1000 g/l but not having said liquid added to said low density particulate detergent composition per step (d).
- Claim 24. The process of claim 23 wherein said water-dispersible, non-particulate detergent product has in a range of from about 5% to about 200% greater dispersibility in water and wherein said liquid is polyethylene glycol having a molecular weight less than 1000.
- Claim 30. The detergent product formed by the process of claim 36 wherein said liquid is a nonionic surfactant and is added to said low density detergent composition in an amount sufficient to reduce said intra-particle porosity by at least about 20%.
- Claim 32. The detergent product formed by the process of claim 36 wherein said liquid is polyethylene glycol having a molecular weight less than about 1000.
- Claim 33. The detergent product formed by the process of claim 36 wherein said water-dispersible, non-particulate detergent product has at least about 5% greater dispersability in water as compared to a non-particulate detergent product having a density of at least about 1000 g/l but not having said liquid added to said low density particulate detergent composition per step (d).
- Claim 34. The detergent product formed by the process of claim 36 wherein said liquid is polyethylene glycol having a molecular weight less than about 1000, said polyethylene

glycol is homogeneously mixed with said spray dried detergent granules, and at least 80% by weight of said detergent product is dispersible in water after being immersed in water for no greater than about 3 minutes.

Claim 35. A method of laundering soiled clothes comprising the step of immersing said soiled clothes in an aqueous medium containing an effective amount of a non-particulate detergent product made by a process according to claim 36.

Claim 36. A process for producing a water-dispersible, non-particulate detergent product from a low density detergent composition, comprising the steps of:

- (a) providing spray dried detergent granules having a bulk density less than about 650 g/l;
- (b) providing agglomerated detergent particles having a bulk density in a range of from about 700 g/l to about 900 g/l;
- (c) mixing said spray dried detergent granules and said agglomerated detergent particles to form a low density detergent composition, wherein said spray dried detergent granules are present in a range of from about 40% to about 80% by weight of said low density detergent composition and said agglomerated detergent particles are present in a range of from about 20% to about 60% by weight of said low density detergent composition;
- (d) adding a liquid to said low density detergent composition in an amount sufficient to reduce said intra-particle porosity by at least about 10%;
and
- (e) compacting said low density detergent composition having said reduced intra-particle porosity, by applying a pressure in an amount sufficient to form said water-dispersible, non-particulate detergent product having a density of at least about 1000 g/l.